



State of Illinois

ENVIRONMENTAL PROTECTION AGENCY

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Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

217/524-3300

August 22, 1996

CERTIFIED MAIL
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Winnebago Reclamation Service, Inc.
Attention: Gary L. Marzorati
Post Office Box 2071
Loves Park, Illinois 61103

Re: 2018080001 -- Winnebago County
Pagel's Pit/Winnebago Reclamation Service
Permit No. Permit No. 1991-138-LF
Modification No. 2
Log Nos. 1995-250 and 1996-058
Expiration Date: April 15, 1998
Permit File

Dear Mr. Marzorati:

Permit is hereby granted to Winnebago Reclamation Service, Inc., as owner and operator, approving modification of an existing municipal and non-hazardous special waste landfill all in accordance with the application and plans certified by Daniel R. Feezor, P.E. of Andrews Environmental Engineering, Inc., pursuant to 35 Illinois Administrative Code, Subtitle G (hereinafter 35 IAC) Section 813.201. Final plans, specifications, application, and supporting documents, as submitted and approved, shall constitute part of this permit and are identified in the records of the Illinois Environmental Protection Agency (the "Agency"), Bureau of Land, Division of Land Pollution Control by the permit number and log number designated in the heading above.

In issuing Modification No. 2 to Permit No. 1991-138-LF, the Agency is conditionally approving:

- A. The initial Significant Modification of the development and operation of the existing landfill unit (i.e., the northern unit) at this facility so as to comply with the applicable requirements of 35 IAC Parts 811 and 812, pursuant to 35 IAC, Sections 814.104, 814.301 and 814.302;
- B. The vertical expansion of the northern unit, proposed in Log No. 1995-250. The final contours approved by this permit are shown in the drawing, entitled Sheet Number B-3, dated May 1996 and received by the Agency on May 24, 1996, included as an addendum to Log No. 1995-250. (The peak elevation of the final contours, approved by this permit, is

865 feet above mean sea level. Modification No. 2 to Permit No. 1991-138-LF approves approximately 1,818,700 cubic yards in additional airspace.)

- C. Acceptance of special waste streams without individual special waste stream authorizations, in accordance with the special conditions listed in Part III of this permit.
- D. A groundwater monitoring program for the northern unit, satisfying the requirements of 35 IAC 814.302(a)(5), including AGQS and MAPC values;
- E. The proposal, made in Log No. 1996-058, to temporarily discontinue groundwater monitoring in the southern unit until waste disposal is permitted to begin in it; and
- F. Groundwater remedial action (and a Groundwater Monitoring Zone (GMZ)) pursuant to 35 IAC Subtitle F, Part 620 for the northern Unit.

The permit applications (Log Nos. 1995-250 and 1996-058) for Modification No. 2 to Permit No. 1991-138-LF consists of the following documents:

<u>DOCUMENT</u>	<u>DATE OF DOCUMENT</u>	<u>DATE RECEIVED</u>
Original Application for Log No. 1995-250	July 10, 1995	July 10, 1995
Additional Information to Log No. 1995-250 regarding Groundwater Corrective Action	July 13, 1995	July 14, 1995
Additional Information to Log No. 1995-250 regarding CQA for Installation of Gas Monitoring System	August 7, 1995	August 7, 1995
Additional Information to Log No. 1995-250 explaining why the adjacent gas processing unit should not be part of this facility	August 7, 1995	August 8, 1995
Initial Response to the Agency letter of October 6, 1995 for Log No. 1995-250	October 16, 1995	October 20, 1995
Initial Follow up on the October 24, 1995 Meeting for Log No.1995-250	November 1, 1995	November 2, 1995

<u>DOCUMENT</u>	<u>DATE OF DOCUMENT</u>	<u>DATE RECEIVED</u>
Four Modified Disks for Groundwater Impact Assessment for Log No. 1995-250	November 2, 1995	November 3, 1995
Additional Information to Log No. 1995-250 responding to the Agency letter of October 6, 1995	November 17, 1995	November 17, 1995
Additional Information regarding Groundwater Impact Assessment for Log No. 1995-250	November 21, 1995	November 22, 1995
Addendum to Additional Information received November 17, 1995 for Log No. 1995-250	December 7, 1995	December 8, 1995
Additional Information regarding HELP Model for Log No. 1995-250	January 26, 1996	January 26, 1996
Original Application for Log No. 1996-058	February 27, 1996	February 27, 1996
Letter regarding meeting scheduled for May 9, 1996	May 2, 1996	May 6, 1996
Waiver of Due Date to July 1, 1996 for Log No. 1995-250	May 14, 1996	May 14, 1996
Waiver of Due Date to July 1, 1996 for Log Nos. 1995-250 and 1996-058	May 23, 1996	May 23, 1996
Revised Application for Log No. 1995-250	May 24, 1996	May 24, 1996
Supporting Documentation for Local Siting Approval for Log No. 1995-250	May 28, 1996	May 29, 1996

<u>DOCUMENT</u>	<u>DATE OF DOCUMENT</u>	<u>DATE RECEIVED</u>
Additional Copies of Supporting Documentation for Local Siting Approval for Log No. 1995-250	June 7, 1996	June 10, 1996
Waiver of Due Date to August 1, 1996 for Log Nos. 1995-250 and 1996-058	July 1, 1996	July 1, 1996
Letter regarding conference call scheduled for July 11, 1996	July 10, 1996	July 11, 1996
Letter from Chairman of the Winnebago County Board regarding Local Siting Approval for Log No. 1995-250	July 24, 1996	July 30, 1996
Waiver of Due Date to August 15, 1996 for Log Nos. 1995-250 and 1996-058	July 31, 1996	July 31, 1996
Waiver of Due Date to August 22, 1996 for Log Nos. 1995-250 and 1996-058	August 14, 1996	August 14, 1996

Except for the differences described in the table below, the special conditions of the permit letter for Modification No. 2 to Permit No. 1991-138-LF are identical to the special conditions to Modification No. 1.

Condition No. in Modification No. 1	Condition No. in Modification No. 2	Description of Modification
I.2	I.2	Modified to reflect the fact that Modification No. 2 grants operating authorization to Phase III (the northern unit) and to add preparation of the subgrade to the tasks that need to be documented through the CQA program.
NA	I.4 - I.11	Added in accordance with the Agency's current procedures when permitting landfill units under 35 IAC Part 811 - 814.

Condition No. in Modification No. 1	Condition No. in Modification No. 2	Description of Modification
II.4 and II.5	II.4 and II.5	Modified to allow the use of the alternate materials for daily cover, which were permitted at the southern unit under 35 IAC Part 807.
II.6	II.6	Modified to include the final cover design of the northern unit.
II.9 and II.10	NA	Deleted to reflect the "ultra-generic" for acceptance of special wastes described in Part III of the permit conditions.
NA	II.9 and II.10	Added in accordance with the Agency's current procedures when permitting landfill units under 35 IAC Part 811 - 814.
II.11	II.11	Modified to approve the extended operating hours proposed in Log No. 1995-250.
II.13	II.18	Modified in accordance with the Agency's current procedures when permitting landfill units under 35 IAC Part 811 - 814.
NA	II.12 - II.17 and II.19 - II.23	Added in accordance with the Agency's current procedures when permitting landfill units under 35 IAC Part 811 - 814.
NA	III.1 - III.9	Added in accordance with the Agency's procedure to eliminate special waste stream permits.
NA	IV.1 - IV.6	Added in accordance with the Agency's current procedures, regarding record keeping, when permitting landfill units under 35 IAC Part 811 - 814.
NA	VI.1 - VI.4	Added in accordance with the Agency's current procedures, regarding surface water control, when permitting landfill units under 35 IAC Part 811 - 814.
IV.1	VII.1	Modified to include the leachate monitoring points for the northern unit.

Condition No. in Modification No. 1	Condition No. in Modification No. 2	Description of Modification
IV.2	VII.2	Modified to require leachate monitoring parameters consistent with the Agency's current procedures when permitting landfill units under 35 IAC Part 811 - 814. Note: List L3 (the RCRA Subtitle C characteristics for which waste can be hazardous) has been deleted because the leachate from this facility will be discharged directly in the sewer system.
IV.3	VII.3	Modified in accordance with the Agency's current procedures when permitting landfill units under 35 IAC Part 811 - 814.
IV.5 and IV.6	VII.5 and VII.6	Modified to include leachate management at the northern unit.
V.3	VIII.3	Modified to include brief description of location of the monitoring wells in both the southern unit and the northern unit.
V.9	VIII.20	Modified to include updated language.
V.10	VIII.12	Modified to include language changes and AGQS values for the northern unit's groundwater monitoring program.
V.11	VIII.9	Modified to include the current monitoring wells for both the southern unit and the northern unit.
V.12	VIII.10 and VIII.17	Modified by splitting VIII.12 into two (2) separate conditions with revised language.
V.13	VIII.19	Modified to include updated language.
V.15	VIII.13	Modified to include updated language.
NA	VIII.22	Added to require an assessment report for the northern unit.
NA	VIII.23	Added to specify final corrective action measures/procedures for the northern unit, including notification of meeting
V.18	VIII.24	Modified to include updated language.

Condition No. in Modification No. 1	Condition No. in Modification No. 2	Description of Modification
VI.1 - VI.10	IX.1 - IX.10	Modified to include gas monitoring and management at the northern unit.
VII.1 - VII.7	X.1 - X.8	Modified to include closure and post closure care of the northern unit and the conditions/wording the Agency is currently using in permitting landfill units under 35 IAC Part 811 - 814.
VIII.1 - VIII.4	XI.1 - XI.4	Modified to include the conditions/wording regarding reporting requirements the Agency is currently using in permitting landfill units under 35 IAC Part 811 - 814.

Pursuant to Section 39(a) of Illinois Environmental Protection Act (Act) and 35 IAC, 813.104(b), this permit is issued subject to the development, operating and reporting requirements for non-hazardous waste landfills in 35 IAC, Parts 810, 811, 812, 813 and 814, the standard conditions attached hereto, and the following special conditions. In case of conflict between the permit application and these conditions (both standard and special), the conditions of this permit shall govern.

I. CONSTRUCTION QUALITY ASSURANCE

1. All necessary surface drainage control facilities shall be constructed prior to other disturbance in any area.
2. No part of the new unit, permitted for development by Permit No. 1991-138-LF (i.e., the southern landfill unit), shall be placed into service or accept waste until an acceptance report for all the activities listed below has been submitted to and approved by this Agency as a significant modification pursuant to 35 IAC, Sections 811.505(d) and 813.203.
 - a. Preparation of the subgrade prior to compacted earth liner placement;
 - b. Installation of the compacted earth/synthetic liner;
 - c. Installation of the leachate drainage and collection system;
 - d. Construction of ponds, ditches, lagoons and berms.

3. The permittee shall designate an independent third party contractor as the Construction Quality Assurance (CQA) Officer(s). The CQA Officer(s) shall be an Illinois Certified Professional Engineer who is independent from and not under the control or influence of the operator, any employee of the operator, or any other corporation, company or legal entity that is a subsidiary, affiliate, parent corporation or holding corporation associated with the operator.
4. The CQA Officer(s) designated pursuant to Condition I.3. shall personally be present during all construction and testing that is subject to CQA certification pursuant to 35 IAC, Section 811.503(a). If the CQA Officer(s) is unable to be present as required, then a written explanation and signed statement must be provided for each absence pursuant to 35 IAC, Section 811.503(b).
5. The clay liner shall be tested for density and moisture content a minimum of five tests per lift per acre.
6. A minimum of one laboratory permeability test shall be performed for every 5,000 cubic yards of liner soil placed.
7. If the clay portion of the liner is exposed to freezing conditions, it must be recertified. The designated CQA Officer(s) shall then certify that the clay portion of the liner and all necessary repairs to the leachate drainage layer meet the required design standards. This certification must be provided to the Agency prior to disposal of waste on the subject portion of the liner. If operating authorization has not yet been issued for that area, the recertification shall be included in the application for Significant Modification of Permit to obtain Operating Authorization for that area.
8. Pursuant to 35 IAC, Section 811.505(d), upon completion of construction of each major phase, the CQA Officer(s) shall submit an acceptance report to the Agency. The acceptance report shall be submitted before the structure is placed into service and shall contain the following:
 - a. A certification by the CQA Officer(s) that the construction has been prepared and constructed in accordance with the engineering design;
 - b. As-built drawings; and
 - c. All daily summary reports.
9. The operator shall maintain a minimum "freeboard" of one (1) foot between the top edge of the sidewall liner and the top of the waste.

Just prior to installing an increment of the sidewall liner, the sidewall liner in that area shall be inspected. Any areas damaged by desiccation, frost action, etc. shall be excavated and reconstructed in accordance with the Construction Quality Assurance program approved by this permit.

After each increment of the compacted earth liner up the sidewall is completed, the operator shall provide written notification of its completion to this Agency's Rockford Regional Office. Upon receipt of the notification, the inspector shall be allowed fifteen working days to examine the construction. The Agency is not obligated to approve the construction or certification. The operator may dispose of refuse in the subphase after the fifteen day period if, having complied with the terms of this condition, the operator is not informed of a problem by the Agency or its agents.

At the same time the Rockford Regional Office is given notification that an increment of the sidewall liner has been completed, the Permit Section shall be provided with the information required in an Acceptance Report pursuant to 35 Ill. Adm. Code, 811.505(d) on its construction.

10. Applications for operating authorization shall not be made for areas of less than 1.5 acre increments of constructed liner.
11. All stakes and monuments marking property boundaries and the permit area shall be maintained, inspected annually and surveyed no less frequently than once in five years by a professional land surveyor.
12. All standards for testing the characteristics and performance of materials, products, systems and services shall be those established by the American Society for Testing and Materials (ASTM) unless otherwise stated in the permit application.

II. OPERATING CONDITIONS

1. Pursuant to 35 IAC, Sections 811.107(a) and 811.107(b), throughout the operating life of this landfill, waste shall not be placed in a manner or at a rate which results in unstable internal or external slopes or interference with construction, operation or monitoring activities.
2. The operator of this solid waste facility shall not conduct the operation in a manner which results in any of the following:
 - a. refuse in standing or flowing waters;
 - b. leachate flows entering waters of the State;

- c. leachate flows exiting the landfill confines (i.e., the facility boundaries established for the landfill in a permit or permits issued by the Agency);
 - d. open burning of refuse in violation of Section 9 of the Illinois Environmental Protection Act (Act);
 - e. uncovered refuse remaining from any previous operating day or at the conclusion of any operating day, unless authorized by permit;
 - f. failure to provide final cover within time limits established by Board regulations;
 - g. acceptance of wastes without necessary permits;
 - h. scavenging as defined by Board regulations;
 - i. deposition of refuse in any unpermitted (i.e., without an Agency approved significant modification authorizing operation) portion of the landfill;
 - j. acceptance of a special waste without a required manifest and identification record;
 - k. failure to submit reports required by permits or Board regulations;
 - l. failure to collect and contain litter from the site by the end of each operating day.
3. Moveable, temporary fencing shall be used to prevent blowing litter when the refuse is above the natural ground line.
4. At the end of each day of operation all exposed waste shall be covered with:
- a. Clean soil at least six (6) inches thick (i.e., conventional daily cover); or
 - b. An alternate cover as described below.
5. Geotextile fabric (e.g., FabriSoil), foundry sand, biodegradable clay-based materials, produced commercially for use as daily cover (e.g., Liquid Clay Formulation 480), dried sewage sludge, sand blast media and fully composted yard waste are approved as alternate material for daily cover pursuant to 35 IAC, Sections 811.106(b) and 812.111(b) at this facility. Use of alternate materials as daily cover shall be subject to the following conditions:

- a. If any alternate materials other than those approved by this permit are to be used, their use must be approved by this Agency through the permit process.
- b. At any one time, the total area, using alternate materials as daily cover, shall be no more than 5000 square yards. Beyond this maximum, daily cover soil shall be used on all areas where waste has been disposed and to which intermediate or final cover has not been applied.
- c. Areas upon which alternate cover has been used must be covered with either conventional cover or additional waste within six days.
- d. Conventional daily cover in accordance with 35 IAC 811.106(a) shall be used if weather or other conditions adversely affect the ability of the alternate cover materials to prevent problems with blowing litter, fire, odors, or vectors. For dried sewage sludge and spent sand blast media, such conditions would include winds gusting 15 miles per hour (or higher).
- e. Geotextile fabrics shall be anchored adequately to prevent wind damage. If the alternate daily cover is torn during or after placement they must be repaired immediately or the damaged area must be covered with six inches of daily cover soil. If tires are used as weights for the alternate daily cover, they shall be converted tires, in accordance with 35 IAC, Part 848: Management of Used and Waste Tires.
- f. Any alternate daily cover which has been used for daily cover may not be reused for any purpose (including road underlayment and erosion control) outside of permitted disposal boundaries.
- g. When dried sewage sludge or spent sand blast media are employed as daily cover, a layer of sludge or media at least six (6) inches thick shall be applied.
- h. All dried sewage sludge and spent sand blast media, received at this landfill for disposal or for use as daily cover, shall be accepted as special waste in accordance with the conditions contained in Part III of this permit letter.
- i. Neither dried sewage sludge nor spent sand blast media shall be stockpiled, on an on-going basis, for use as daily cover. That is, by the end of each operating day all dried sewage sludge or spent sand blast

media received that day shall either have been used as daily cover or disposed.

- j. Any runoff from areas in which dried sewage sludge or spent sand blast media has been used as daily cover shall be collected and managed as leachate.
 - k. If this Agency's Field Operations Section determines that an alternate material is not performing satisfactorily as daily cover, the operator shall cease using it as daily cover immediately upon receipt of written notification of such determination.
6. No later than 60 days after placement of the final lift of waste in any area, the area shall receive a final cover system meeting the design specifications approved in Permit No. 1991-138-LF and Modification No. 2 to Permit No. 1991-138-LF. The low permeability layers of the northern unit shall consist of a 12 inch layer of compacted soil with a minimum hydraulic conductivity of 1×10^{-6} cm/sec overlain by a 30 mil Very Flexible Polyethylene (VFPE). The design of the low permeability layer for the southern unit currently calls for a 36 inch layer of compacted soil with a minimum hydraulic conductivity of 1×10^{-7} cm/sec.
- The protective layers of the northern unit shall consist of an eight (8) inch granular drainage layer overlain by a 28 inch layer of clean soil on the top slopes and 36 inches of clean soil on the side slopes. The protective layer of the southern unit shall consist of at least 36 inches of clean soil. In the final covers systems of both the northern and southern units, the top six (6) inches of the protective soil must be capable of supporting vegetation and the total thickness of the final protective layer(s) shall not be less than three feet.
- 7. All waste not covered within 60 days of placement with additional waste or final cover shall have an intermediate cover of compacted clean soil with a minimum thickness of one (1) foot applied to it.
 - 8. The operator shall implement a load checking program that meets the requirements of 35 IAC, Section 811.323. If regulated hazardous waste or other unauthorized wastes are discovered, the Agency shall be notified no later than 5:00 p.m. the next business day after the day it is detected. The load checker shall prepare a report describing the results of each inspection. A summary of these reports shall be submitted to the Agency as part of this facility's annual report.
 - 9. Asbestos debris from construction-demolition shall be managed in accordance with the National Emission Standards for Hazardous Air Pollutants (NESHAPS) regulations.

10. Management of Unauthorized Waste
 - a. Landscape waste found to be mixed with municipal waste will be removed the same day and transported to a facility that is operating in accordance with the Act, Title V, Sections 21.
 - b. Lead-acid batteries will be removed the same day and transported either to a drop-off center handling such waste, or to a lead-acid battery retailer.
 - c. Potentially infectious medical waste (PIMW) found to be mixed with municipal waste shall be managed in accordance with 35 Ill. Adm. Code, Subtitle M.
 - d. Tires found to be mixed with municipal waste shall be removed and managed in accordance with Section 55 of the Act.
 - e. White good components mixed with municipal waste shall be removed and managed in accordance with Section 22.28 of the Act.
 - f. This facility is prohibited from disposing any waste containing polychlorinated bi-phenyls (PCBs) in concentration greater than 50 ppm, pursuant to the Toxic Substance Control Act (TSCA).
 - g. No liquid waste (special or non-special) as determined by the Paint Filter Test shall be disposed unless the waste is from a household or is in a small container similar in size to that normally found in household waste and the container was designed for use other than storage. The prohibition applies to on-site generated wastes except for leachate or gas condensate that is specifically approved for recirculation into the landfill by permit. However, minor amounts of liquid resulting from precipitation (rain, sleet, hail or snow) during transport and disposal operations shall not be construed as a violation of this condition.
 - h. After the unauthorized waste has been removed, a thorough cleanup of the affected area will be made according to the type of unauthorized waste managed. Records shall be kept for three (3) years and will be made available to the Agency.
11. Operating hours are those hours during which waste may be accepted. For this facility, the operating hours shall be limited to 6:00 a.m. - 7:00 p.m., Monday through Friday, 7:00 a.m. to 5:00 p.m. on Saturday. Adequate lighting shall be

provided for outdoor activities at the landfill occurring before sunrise or after sunset.

12. If it is required for the facility to be open beyond normal operating hours to respond to emergency situations, a written record of the date(s), times and reason the facility was open shall be made part of the operating record for the facility. The IEPA-FOS Regional Office, and when applicable, the county authority responsible for inspections of this facility per a delegation agreement with the Agency shall be notified no later than 5:00 p.m. the next business day following the acceptance of waste outside the specified operating hours.
13. Road building materials for roads at the facility may be stockpiled on-site in the amount estimated to be needed within the next construction season provided they are managed in accordance with 35 IAC, Section 811.108(c)(1).
14. Equipment shall be maintained and available for use at the facility during all hours of operation to allow proper operation of the landfill. If breakdowns occur that would prevent proper facility operation, back-up equipment shall be brought into the site.
15. All utilities, including but not limited to heat, lights, power, communications equipment and sanitary facilities necessary for safe, efficient and proper operation of the landfill shall be available at the facility at all times.
16. Waste shall be deposited at the fill face and compacted upward into the fill face unless precluded by extreme weather conditions or for reasons of safety.
17. The operator shall implement methods for controlling dust so as to prevent wind dispersal of particulate matter off-site.
18. The facility shall be constructed and operated to minimize the level of equipment noise audible outside the facility. The facility shall not cause or contribute to a violation of 35 IAC, Parts 900 through 905.
19. The operator shall implement measures to control the population of disease and nuisance vectors.
20. The operator shall institute fire protection measures in accordance with the proposed fire safety plan.
21. The operator shall implement methods to prevent tracking of mud by hauling vehicles onto public roadways.

22. Access to the active area and all other areas within the boundaries of the facility shall be controlled by use of fences, gates and natural barriers to prevent unauthorized entry at all times.
23. A permanent sign shall be maintained at the facility entrance containing the information required under 35 IAC, Section 811.109(b)(1) through (5).

III. DISPOSAL OF SPECIAL WASTE

1. The permittee is authorized to accept non-hazardous special waste that meets the definition of industrial process waste or pollution control waste as found in Section 3.17 and 3.27, respectively, of the Illinois Environmental Protection Act, in accordance with the following requirements:
 - a. The waste is analyzed in accordance with the requirements described below and complies with the acceptance criteria in the approved waste analysis plan;
 - b. The waste is delivered by an Illinois licensed special waste hauler or an exempt hauler as defined in 35 IAC, Section 809.211; and
 - c. The waste is accompanied by a manifest, if required.
2. The permittee shall obtain a completed Special Waste Preacceptance Form (enclosed) and a preacceptance analysis from each generator for each waste to be accepted. In addition, the annual Generator and Certification form (enclosed), which certifies the waste has not changed since the last analysis, must be completed and included in the operating record. A complete laboratory analysis must be provided with the exceptions listed below.

Analysis shall be conducted using SW-846 test methods. The waste shall be reanalyzed at least every five years and must identify the actual concentration of each chemical constituent and state of each physical parameter. In all cases a copy of the lab analysis (on lab letterhead and signed by a responsible party such as the person conducting the analysis or his/her supervisor) must be included in the operating record with the Special Waste Preacceptance format (Profile Identification Sheet). The analysis may not be greater than one year old at the time. A new analysis is required if the composition of the waste changes (normal variations in waste composition are expected and are not included in this requirement). All waste must be analyzed as follows:

- a. The permittee shall obtain the following lab analyses to determine the concentrations of the following parameters.

Paint Filter Test
Flash point
Sulfide (reactive)
Cyanide (reactive)
Phenol (total)
pH
Toxicity Characteristic Constituents

- b. The permittee shall obtain analysis for reactive sulfides and cyanides. For waste containing 250 ppm or greater reactive cyanide or 500 ppm or greater reactive sulfide it is presumed hazardous pursuant to 35 IAC, Section 721.123(a)(5) unless specific information to show it does not present danger to human health or the environment is provided. Analysis for total sulfide and/or cyanide may be substituted for reactive concentrations if they are equal to or less than 10 ppm. For wastes containing greater than 10 ppm reactive cyanide or reactive sulfide, the permittee shall not accept the waste unless the generator provides a signed and dated statement indicating that none of the following have occurred:
- i. The waste has never caused injury to a worker because of H₂S and/or HCN generation;
 - ii. That the OSHA work place air concentration limits for H₂S and/or HCN have not been exceeded in areas where the waste is generated, stored or otherwise handled; or
 - iii. That air concentrations of H₂S and/or HCN, above 10 ppm, have not been encountered in areas where the waste is generated, stored or otherwise handled.
- c. The permittee shall obtain analysis for phenols. If the total phenol concentration is greater than 1000 ppm, the waste will be required to be drummed and labeled, unless justification that this precaution is not necessary is provided. The justification must demonstrate skin contact is unlikely during transport or disposal.
- d. The permittee shall obtain metals and organics analysis. Either procedure may be utilized (i.e., total or TCLP), but any constituent whose total concentration exceeds the TCLP limit specified in 35 IAC, Section 721.124

must be analyzed using the TCLP test and the results reported, unless an alternative test has been approved by the Agency. TCLP test methods must be in accordance with SW 846-1311.

e. Exceptions:

- i. The generator may certify that the eight pesticides (D012, D013, D014, D015, D016, D017, D020 and D031) would not reasonably be expected to be present in their waste based on the nature of the generator's business.
- ii. Petroleum contaminated media and debris from LUST sites subject to corrective action regulation under 35 IAC, Part 731 are temporarily exempt from complete TCLP analysis and the generator may limit analyses to flashpoint, paint filter test and TCLP lead.
- iii. For off-specification, unused or discarded commercial or chemical products, an MSDS to determine the hazardous constituents present may be provided in lieu of analytical results.

f. Pursuant to 35 Ill. Adm. Code 722.111 the generator of a solid waste is required to determine if the waste is hazardous and comply with all applicable hazardous waste regulations. For any waste that has been determined to be hazardous, the results of quality assurance testing for the treatment program, taken at an appropriate frequency to demonstrate the waste is no longer hazardous, must be obtained. Verification that the waste meets the land disposal restrictions must also be documented. These requirements are in addition to the other standard special waste test requirements.

3. An individual waste stream permit is no longer required by this Agency for this facility. Therefore, a waste stream permit number will no longer be required on the manifest when shipping waste to this facility as authorized by this permit.
4. Special waste generated due to an emergency situation may be disposed without complete TCLP analysis if:
 - a. The permittee ensures that the generator has received an incident number from the Illinois Emergency Management Agency at 1/800/782-7860 within Illinois or 1/217/782-7860 outside of Illinois and,

- b. The permittee receives authorization from the Emergency Response Unit at 1/217/782-3637 and,
 - c. The waste is analyzed for the chemical constituents required by the Emergency Response Unit.
- 5. The permittee shall conduct the following analysis for waste received in labeled containers in lab packs including commingles wastes are subject to the following requirements:
 - a. Compatibility review in accordance with the procedures identified in USEPA document EPA-600/2-80-076.
 - b. MSDS review to determine the hazardous constituents present and appropriate USEPA hazardous waste class.
- 6. RCRA empty containers received as a special waste are subject to conditions which state:
 - a. Containers have a rated capacity of less than 110 gallons only.
 - b. Containers which formerly held 'P' listed hazardous waste or TSCA regulated quantities of PCBs or empty compressed gas cylinders are not included under this permit.
 - c. All containers must meet the definition of empty as described in 35 Ill. Adm. Code, Section 721.107(b).
 - d. Additionally, where possible, a copy of the material safety data sheets for products last contained will be obtained and kept on file.
 - e. For drums, at least one end must be removed and the drums must be crushed flat.
- 7. The Special Waste Preacceptance Form shall be utilized for the special waste profile identification requirements of 35 IAC, Section 811.404(a).
- 8. The Annual Generator Recertification for Disposal Special Waste format shall be utilized for the special waste recertification requirements of 35 IAC, Section 811.404(b).

9. The operator shall retain all special waste records until the end of the post-closure period in accordance with 35 Ill. Adm. Code 811.405.

IV. RECORD KEEPING

1. Information developed by the operator but not yet forwarded to the Agency in a quarterly or annual report shall be kept at or near the facility for inspection by the Agency upon request during normal working hours.
2. Information and observations derived from load checking inspections shall be recorded in writing and retained at the facility for at least three years.
3. Every person who delivers special waste to a special waste hauler, every person who accepts special waste from a special waste hauler and every special waste hauler shall retain a copy of the special waste transportation record as a record of each special waste transaction. These copies shall be retained for three years and shall be made available at reasonable times for inspection and photocopying by the Agency pursuant to Section 4(d) of the Act.
4. The operator shall retain copies of any special waste profile identification sheets, special waste recertifications, certifications of representative samples, special waste laboratory analyses, special waste analysis plans, and any waivers of requirements, at the facility until the end of the closure period and thereafter at the Site Office until the end of the post-closure care period.
5. Inspections of the closed landfill shall be conducted in accordance with the approved post-closure care plan. Records of field investigations, inspections, sampling and corrective action taken are to be maintained at the site and made available to IEPA personnel. During the post-closure care period, those records are to be maintained at the office of the site operator.
6. The owner or operator shall record and retain near the facility in an operating record or in some alternative location specified by the Agency, the information submitted to the Agency pursuant to 35 IAC, Parts 812 and 813, as it becomes available. At a minimum, the operating record shall contain the following information, even if such information is not required by 35 IAC, Part 812 or 813:
 - a. Any location restriction demonstration required by 35 IAC, Sections 811.302, 812.109, and 812.303 and 812.305;
 - b. Inspection records, training procedures, and notification procedures required by 35 IAC, Section 811.323;

- c. Gas monitoring results and any remediation plans required by 35 IAC, Sections 811.310 and 811.311;
- d. Any municipal solid waste landfill (MSWLF) unit design documentation for placement of leachate or gas condensate in a MSWLF unit required by 35 IAC, Section 811.107(m);
- e. Any demonstration, certification, monitoring results, testing, or analytical data relating to the groundwater monitoring program required by 35 IAC, Sections 811.319, 811.324, 811.325, 811.326, 812.317, 813.501 and 813.502;
- f. Closure and post-closure care plans and any monitoring, testing, or analytical data required by 35 IAC, Sections 811.110, 811.111, 812.114(h), 812.115 and 812.313; and
- g. Any cost estimates and financial assurance documentation required by 35 IAC Part 811, Subpart G.

V. GENERAL CONDITIONS

- 1. This permit is issued with the expressed understanding that no process discharge to Waters of the State or to a sanitary sewer will occur from these facilities except as authorized by a permit issued by the Bureau of Water Pollution Control.
- 2. Site surface drainage, during development, during operation and after the site is closed, shall be managed in accordance with the approved drainage control plan.
- 3. If changes occur which modify any of the information the permittee has used in obtaining a permit for this facility, the permittee shall notify the Agency. Such changes would include but not be limited to any changes in the names or addresses of both beneficial and legal titleholders to the herein-permitted site. The notification shall be submitted to the Agency within fifteen days of the change and shall include the name or names of any parties in interest and the address of their place of abode; or, if a corporation, the name and address of its registered agent.
- 4. The Agency reserves the right to require installation of additional monitoring devices, to require analyses for certain parameters, to alter the sample parameters list and to modify the method of evaluating the monitoring results as necessary to fulfill the intent and purpose of the Illinois Environmental Protection Act or the Illinois Pollution Control Board Regulations.

5. This permit is subject to review and modification by the Agency as deemed necessary to fulfill the intent and purpose of the Illinois Environmental Protection Act, and all applicable environmental rules and regulations.
6. Pursuant to 35 IAC, Section 813.201(a), any modifications to this permit shall be proposed in the form of a permit application and submitted to the Agency.
7. Pursuant to 35 IAC, Section 813.301, an application for permit renewal shall be filed with the Agency at least 90 days prior to the expiration date of this permit.

VI. SURFACE WATER CONTROL

1. Runoff from disturbed areas to Waters of the State shall be permitted by the Agency in accordance with 35 IAC, Part 309, and meet the requirements of 35 IAC 304 unless permitted otherwise.
2. All surface water control structures other than temporary diversions for intermediate phases shall be operated until the final cover is placed and erosional stability is provided by the final protective layer of the final cover system.
3. Runoff from undisturbed areas resulting from precipitation events less than or equal to the 25-year, 24-hour precipitation event shall be diverted around disturbed areas where possible and not commingled with runoff from disturbed areas.
4. Site surface drainage, during development, during operation and after the site is closed, shall be managed in accordance with the approved drainage control plans detailed in Permit Application Log Nos. 1991-138 and 1995-250. Storm water management structures consisting of perimeter ditches and sediment basins shall be constructed within 12 months of the date of this permit or prior to disturbing any portion of drainage areas identified in Application Log Nos. 1991-138 and 1995-250.

VII. LEACHATE MANAGEMENT/MONITORING

1. The following monitoring points are to be used in the Leachate Monitoring Program for this facility:

Leachate Monitoring Points for the Northern Unit

<u>Applicant Designation</u>	<u>Agency Designation</u>
L301 (Leachate Storage Tank)	L311
L302 (Leachate Storage Tank)	L312

Leachate Monitoring Points for the Southern Unit

<u>Applicant Designation</u>	<u>Agency Designation</u>
Cell 1 Manhole	L301
Cell 2 Manhole	L302
Cell 3 Manhole	L303
Cell 4 Manhole	L304

2. Pursuant to 35 IAC, Sections 810.103, 811.309(g), 811.319(a)(1)(C)(ii) and 814.302(a), leachate monitoring (i.e., sampling, measurements and analysis) must be implemented at each leachate monitoring point when that device accumulates a measurable quantity of leachate. The concentrations or values for the parameters contained in List L1 (below) shall be determined on a quarterly basis for each "producing" monitoring point and submitted with the quarterly groundwater reports. Also, each manhole and leachate/gas extraction well as well as the leachate storage lagoon in the northern unit shall be measured quarterly for piezometric data (i.e., Elevation Leachate Surface) and this data shall also be submitted with quarterly groundwater reports.

The concentrations for the parameters contained in List L2 (also below) shall be determined annually. Condition VII.3 presents the sampling, testing and reporting schedules in tabular form. Leachate monitoring at each monitoring point shall continue as long as groundwater monitoring at this landfill is necessary pursuant to 35 IAC, Section 811.319(a)(1)(C).

LIST L1

<u>Routine Leachate Monitoring Parameters</u>	<u>STORET</u>
Temp. of Leachate Sample (°F)	00011
Specific Conductance	00094
pH	00400
Elevation Leachate Surface	71993
BTM of Well Elevation	72020

LIST L1 (cont.)

<u>Routine Leachate Monitoring Parameters</u>	<u>STORET</u>
Leachate Level from Measuring Point ft.	72109
Arsenic (total)	01002
Barium (total)	01007
Cadmium (total)	01027
Chromium (hexavalent)	01032
Chromium (total)	01034
Copper (total)	01042
Cyanide	00720
Fluoride	00951
Iron (total)	01045
Lead (total)	01051
Manganese (total)	01055
Nickel (total)	01067
Oils (hexane soluble or equivalent)	00550
Phenols	32730
Silver (total)	01077
Zinc (total)	01092
Total Dissolved Solids	70300
Total Suspended Solids	00530
Ammonia Nitrogen - N	00610
Bacteria (Faecal Coliform)	31616
Biochemical Oxygen Demand(BOD ₅)	00310
Mercury (total)	71900
Phosphorous	00665
Chemical Oxygen Demand (COD)	00335

LIST L2

<u>Annual Leachate Monitoring Parameters</u>	<u>STORET</u>
Temp. of Leachate Sample (°F)	00011
Specific Conductance	00094
pH	00400
Elevation Leachate Surface	71993
BTM of Well Elevation	72020
Leachate Level from Measuring Point ft.	72109
1,1,1,2-Tetrachloroethane	77562
1,1,1-Trichloroethane	34506

LIST L2 (cont.)

<u>Annual Leachate Monitoring Parameters</u>	<u>STORET</u>
1,1,2,2-Tetrachloroethane	34516
1,1,2-Trichloroethane	34511
1,1-Dichloroethane	34496
1,1-Dichloroethylene	34501
1,1-Dichloropropene	77168
1,2,3-Trichlorobenzene	77613
1,2,3-Trichloropropane	77443
1,2,4-Trichlorobenzene	34551
1,2,4-Trimethylbenzene	77222
1,2-Dibromo-3-Chloropropane	38760
1,2-Dichloroethane	34531
1,2-Dichloropropane	34541
1,3,5-Trimethylbenzene	77226
1,3-Dichloropropane	77173
1,3-Dichloropropene	34561
1,4-Dichloro-2-Butene	73547
1-Propanol	77018
2,2-Dichloropropane	77170
2,4,5-tp (Silvex)	39760
2,4,6-Trichlorophenol	34621
2,4-Dichlorophenol	34601
2,4-Dichlorophenoxyacetic Acid (2,4-D)	39730
2,4-Dimethylphenol	34606
2,4-Dinitrotoluene	34611
2,4-Dinitrophenol	34616
2,6-Dinitrotoluene	34626
2-Chloroethyl Vinyl Ether	34576
2-Chloronaphthalene	34581
2-Chlorophenol	34586
2-Hexanone	77103
2-Propanol (Isopropyl Alcohol)	81310
3,3-Dichlorobenzidine	34631
4,4-DDD	39310
4,4-DDE	39320
4,4-DDT	39300
4,6-Dinitro-O-Cresol	34657
4-Bromophenyl Phenyl Ether	34636
4-Chlorophenyl Phenyl Ether	34641

LIST L2 (cont.)

<u>Annual Leachate Monitoring Parameters</u>	<u>STORET</u>
4-Methyl-2-Pentanone	78133
4-Nitrophenol	34646
Acenaphthene	34205
Acetone	81552
Alachlor	77825
Aldicarb	39053
Aldrin	39330
Alpha - BHC	39337
Aluminum	01105
Ammonia Nitrogen - N	00610
Anthracene	34220
Antimony	01097
Aroclor-1016	34671
Aroclor-1221	39488
Aroclor-1232	39492
Aroclor-1242	39496
Aroclor-1248	39500
Aroclor-1254	39504
Aroclor-1260	39508
Arsenic (total)	01002
Atrazine	39033
Bacteria (Fecal Coliform)	31616
Barium	01007
Benzene	34030
Benzo (a) Anthracene	34526
Benzo (a) Pyrene	34247
Benzo (b) Fluoranthene	34230
Benzo (ghi) Perylene	34521
Benzo (k) Fluoranthene	34242
Beryllium (total)	01012
Beta - BHC	39338
Bicarbonate	
Biochemical Oxygen Demand (BOD ₅)	00310
Bis (2-Chloro-1-Methylethyl) Ether	73522
Bis (2-Chloroethoxy) Methane	34278
Bis (2-Chloroethyl) Ether	34273
Bis (2-Ethylhexyl) Phthalate	39100
Bis(Chloromethyl)Ether	34268

LIST L2 (cont.)

<u>Annual Leachate Monitoring Parameters</u>	<u>STORET</u>
Boron	01022
Bromobenzene	81555
Bromochloromethane	77297
Bromodichloromethane	32101
Bromoform	32104
Bromomethane	34413
Butanol	45265
Butyl Benzyl Phthalate	34292
Cadmium (total)	01027
Calcium	00916
Carbofuran	81405
Carbon Disulfide	77041
Carbon Tetrachloride	32101
Chemical Oxygen Demand (COD)	00335
Chlordane	39350
Chloride	00940
Chlorobenzene	34301
Chloroethane	34311
Chloroform	32106
Chloromethane	34418
Chromium	01034
Chrysene	34320
Cis-1,2-Dichloroethylene	77093
Cobalt	01037
Copper (total)	01042
Cyanide	00720
DDT	39370
Delta - BHC	46323
Di-N-Butyl Phthalate	39110
Di-N-Octyl Phthalate	34596
Dibenzo (a,h) Anthracene	34556
Dibromochloromethane	32105
Dibromomethane	77596
Dichlorodifluormethane	34668
Dieldrin	39380
Diethyl Phthalate	34336
Dimethyl Phthalate	34341
Endosulfan I	34361

LIST L2 (cont.)

<u>Annual Leachate Monitoring Parameters</u>	<u>STORET</u>
Endosulfan II	34356
Endosulfan Sulfate	34351
Endrin	39390
Endrin Aldehyde	34366
Ethyl Acetate	81585
Ethylbenzene	78113
Ethylene Dibromide (EDB)	77651
Fluoranthene	34376
Fluorene	34381
Fluoride	00951
Heptachlor Epoxide	39420
Heptachlor	39410
Hexachlorobenzene	39700
Hexachlorobutadiene	39702
Hexachlorocyclopentadiene	34386
Hexachloroethane	34396
Ideno (1,2,3-cd) Pyrene	34403
Iodomethane	77424
Iron	01045
Isopropylbenzene	77223
Lead	01051
Lindane	39782
Magnesium	00927
Manganese	01055
Mercury	71900
Methoxychlor	39480
Methyl Chloride	34418
Methyl Ethyl Ketone	81595
Methylene Bromide	77596
Methylene Chloride	34423
Naphthalene	34696
Nickel	01067
Nitrate-Nitrogen	00620
Nitrobenzene	34447
Oil, Hexane Soluble (or Equivalent)	00550
Parathion	39540
Pentachlorophenol	39032
Phenanthrene	34461

LIST L2 (cont.)

<u>Annual Leachate Monitoring Parameters</u>	<u>STORET</u>
Phenols	32730
Phosphorous	00665
Polychlorinated Biphenyls	39516
Potassium	00937
Pyrene	34469
Selenium	01147
Silver	01077
Sodium	00929
Styrene	77128
Sulfate	00945
Tert-Butylbenzene	77353
Tetrachlorodibenzo-p-Dioxins	34675
Tetrachloroethylene	34475
Tetrahydrofuran	81607
Thallium	01059
Tin	01102
Toluene	34010
Total Dissolved Solids (TDS)	70300
Total Organic Carbon (TOC)	00680
Total Suspended Solids	00530
Toxaphene	39400
Trans-1,2-Dichloroethylene	34546
Trans-1,3-Dichloropropene	34699
Trichloroethylene	39180
Trichlorofluoromethane	34488
Tritium	82126
Vanadium	01087
Vinyl Acetate	77057
Vinyl Chloride	39175
Xylene	81551
Zinc	01092
m-Dichlorobenzene	34566
m-Xylene	77134
n-Butylbenzene	77342
n-Nitrosodimethylamine	34438
n-Nitrosodiphenylamine	34433
n-Nitrosodipropylamine	34428
n-Propylbenzene	77224

LIST L2 (cont.)

<u>Annual Leachate Monitoring Parameters</u>	<u>STORET</u>
o-Chlorotoluene	77275
o-Dichlorobenzene	34536
o-Nitrophenol	34591
o-Xylene	77135
p-Chlorotoluene	77277
p-Cresol	77146
p-Dichlorobenzene	34571
p-Isopropyltoluene	77356
p-Nitrophenol	34646
p-Xylene	77133
sec-Butylbenzene	77350

3. The schedule for leachate sample collection and submission of quarterly monitoring results is as follows:

<u>Sampling Quarter</u>	<u>Sampling List</u>	<u>Report Due Date</u>
Jan-Feb (1st)	All leachate monitoring points: List L1	April 15
April-May (2nd)	All leachate monitoring points: List L1	July 15
	All leachate monitoring points: List L2	July 15
July-Aug (3rd)	All leachate monitoring points: List L1	October 15
Oct-Nov (4th)	All leachate monitoring points: List L1	January 15

L1 - Routine Leachate Parameters

L2 - Annual Leachate Parameters

4. Pursuant to 35 IAC, Section 811.309(g)(1), any chemical constituent in List L1 that is not detected in the leachate may be deleted from List L1. However, if subsequently in annual monitoring that constituent is detected, it shall be added back to List L1. All changes to the leachate parameter lists must be approved by the Agency through the permit process.
5. Pursuant to 35 IAC, Section 811.309 and 814.302(b)(1), leachate from the northern landfill unit at this facility shall be collected utilizing the existing extraction devices until these devices are replaced by the permanent dual leachate/gas extraction system, proposed in Permit Application Log No. 1995-250. The extraction wells of the permanent system, located around the perimeter, of the northern unit shall be installed upon reaching final fill elevations and the "interior" extraction wells shall be installed

by December 31, 2001. Pursuant to 35 IAC, Section 811.309, leachate from the southern landfill unit at this facility shall be collected beginning as soon as it is first produced utilizing the drainage and collection system proposed in Permit Application Log No. 1991-138. Collection and disposal of leachate at both units shall continue for at least five years after their respective closures and may cease only when the conditions described in 35 IAC, Section 811.309(h)(2) have been achieved. Leachate removed from these landfill units shall be treated at an IEPA permitted facility in accordance with the leachate management plans proposed in Permit Application Log Nos. 1991-138 and 1995-250.

6. Pursuant to 35 IAC, Sections 811.309 and 814.302(a), leachate shall be managed in accordance with the leachate management plans proposed Permit Application Log Nos. 1991-138 and 1995-250. Leachate extracted from the northern unit shall be managed utilizing the storage tank/lagoon system proposed in Permit Application Log No. 1995-250 and this system shall be installed by July 1, 1997. Until this system has been constructed, leachate from the northern unit shall be managed using the existing leachate management system. In the southern unit, leachate shall be pumped from the leachate collection manholes, L301 - L304, whenever it rises above the respective influent pipe inverts.
7. In the event that the leachate monitoring program detects a constituent in the leachate that is not already in the parameter lists for the groundwater monitoring program, the operator shall, within 90 days of such detection, submit to the Agency a permit application which either:
 - a. Proposes to add the constituent to the groundwater monitoring program; or
 - b. Demonstrates why adding the constituent to the groundwater monitoring program is not necessary or appropriate.

VIII. GROUNDWATER MONITORING

1. The groundwater monitoring program must be capable of determining background groundwater quality hydraulically upgradient of and unaffected by the units and to detect, from all potential sources of discharge, any releases to groundwater within the facility. This Agency reserves the right to require installation of additional monitoring wells as may be necessary to satisfy the requirements of this permit.
2. The groundwater monitoring wells shall be constructed and maintained in accordance with the requirements of 35 IAC, 811.318(d) and designs approved by the Agency.

3. Groundwater monitoring wells shall be screened in the hydrogeologic unit(s) identified as potential contaminant migration pathway(s) in accordance with the requirements of 35 IAC 811.318(b) in the locations shown in:
 - a. Figure 3.1 in Volume I of the Groundwater Monitoring Plan of the permit application Log No. 1995-250 dated July 1995 for the Part 814 Subpart C, Northern Unit. The wells listed in Condition VIII.9, must be installed so that samples may be taken during the months of October or November of 1996 and the results submitted to the Agency by January 15, 1997; and
 - b. Figure 1, Item 3, Addendum 2B of Log No. 1991-138 dated July 1992 for the Part 813, Southern Unit.

Wells marked with “#” and “*” shall be deleted and properly abandoned within 30 days of issuance of this permit and installed in the monitoring program by August 15, 1997, respectively.

4. Within 60 days of installation of any groundwater monitoring well, boring logs compiled by a qualified geologist, well development data and as-built diagrams shall be submitted to the Agency utilizing the enclosed "Well Completion Report" form. For each well installed pursuant to this permit, one form must be completed.
5. Groundwater monitoring wells shall be easily visible, labeled with their Agency monitoring point designations and fitted with padlocked protective covers.
6. In the event that any well becomes consistently dry or unserviceable and therefore requires replacement, a replacement well shall be installed within ten (10) feet of the existing well. The Agency shall be notified in writing at least 15 days prior to the installation of all replacement wells. A replacement well that is more than ten feet from the existing well or which does not monitor the same geologic zone is considered to be a new well and must be approved via a significant modification permit.
7. All borings, wells and piezometers not used as monitoring points shall be abandoned in accordance with the standards in 35 IAC 811.316, and the decommissioning and reporting procedures contained in the Illinois Department of Public Health's (IDPH) Water Well Construction Code, 77 IAC, Part 920 (effective 1/1/92). In the event specific guidance is not provided by IDPH procedures, the enclosed IEPA monitoring well plugging procedures shall be followed.
8. Groundwater sampling and analysis shall be performed in accordance with the requirements of 35 IAC 811.318(e) and the specific procedures and methods approved by the Agency.

9. The following monitoring points are to be used in the groundwater detection monitoring program for this facility:

A. GROUNDWATER MONITORING POINTS FOR THE NORTHERN UNIT

Background Groundwater Quality Wells

Bedrock Deposits

<u>Applicant Designation</u>	<u>Agency Designation</u>
G109	+G09D
G109A	+G09M
G113	+G44D
G113A	+G44M
G120B	+G20D

Zone of Attenuation Wells

Unconsolidated Deposits

<u>Applicant Designation</u>	<u>Agency Designation</u>
B15R	G15S
P3R	G03S
P4R	G03M
G38	G38S
G40	G40S
G33D	G33D
G34D	G34D
G35D	G35D
G36	G36S
G104	#G04S
G115	G42S
G116A	G16S
G117	G17S
G118R	G18S
G118A	G18D
MW106	G41S
P1	G41M
G37S	G37S

Zone of Attenuation Wells (cont.)

Unconsolidated Deposits

<u>Applicant Designation</u>	<u>Agency Designation</u>
G114	G14D
G41	*G41S
G42	*G42S
G43	*G43S

Bedrock Deposits

<u>Applicant Designation</u>	<u>Agency Designation</u>
G132	G41D

Compliance Boundary Wells

Unconsolidated Deposits

<u>Applicant Designation</u>	<u>Agency Designation</u>
G39	G39S

B. GROUNDWATER MONITORING POINTS FOR THE SOUTHERN UNIT

Background Groundwater Quality Wells

Unconsolidated Deposits

<u>Applicant Designation</u>	<u>Previous Agency Designation</u>	<u>Agency Designation</u>
G111	G11S	G11S
G11A	G11D	G11D
G122	G22S	G22S
E1A	G22D	G22D

Zone of Attenuation Wells

Unconsolidated Deposits

<u>Applicant Designation</u>	<u>Previous Agency Designation</u>	<u>Agency Designation</u>
R105	R105	R05S
G110	G110	G10S
G113	G13S	G13S
G113S	G13D	G13D
B13	G16S	G16S
P6	G16D	G16D
G123	G123	G23D
G124	G124	G24D
G125	G125	G25D
G127	G127	G27D
G128	G128	G28D
NA	G29S	G29S
NA	G29D	G29D

Compliance Boundary Well(s)

Unconsolidated Deposits

<u>Applicant Designation</u>	<u>Previous Agency Designation</u>	<u>Agency Designation</u>
G126	G26S	G26S
NA	G26D	G26D

Note:

- + - designates an upgradient well
- (S) - designates a groundwater monitoring well screened within the shallow portion of the unit
- (M) - designates a groundwater monitoring point screened in the intermediate portion of the unit
- (D) - designates a groundwater monitoring well screened within the deep portion of the unit
- * - designates a groundwater monitoring well to be installed in the future.
- # - designates a groundwater monitoring well to be deleted from the monitoring program.

10. The groundwater monitoring programs for both the southern unit and the northern unit of this facility have been approved by Permit No. 1991-138-LF and its subsequent

significant modifications. These monitoring programs shall be continued for a minimum period of 30 years after closure of the respective units and shall not cease until the conditions described in 35 LAC 811.319(a)(1)(C) have been achieved. The operator shall collect samples from all of monitoring points listed in Condition VIII.9, test the samples for the parameters listed in Condition VIII.12 (Lists G1 and G2), and report the results to this Agency, all in accordance with the schedule in VIII.17. However, effective August 22, 1996, groundwater monitoring for the southern unit may be discontinued until the operator obtains a permit from the Agency to begin waste disposal operations in it.

11. The applicable groundwater quality standards (AGQS) and the maximum allowable predicted concentrations (MAPC), as listed in Condition 12 below, are subject to the following conditions:
 - a. Temperature and the field parameters involving depth or elevation are not considered groundwater constituents and do not need AGQS.
 - b. For constituents which have not been detected in the groundwater, the practical quantitation limit (PQL) shall be used as the AGQS.
 - c. MAPCs are only applicable to those wells within the zone of attenuation.
 - d. AGQS are only applicable to upgradient/background and compliance boundary wells.
12. AGQS and MAPC values must be determined for all of the parameters which appear in Lists G1 and G2 (not including groundwater depth or elevations). The AGQS values shall be calculated using four (4) consecutive quarters of groundwater monitoring data beginning with the October-November (4th) sampling quarter of 1996 and employing the statistical method described in Section 4.1.3 of the Groundwater Monitoring Plan of the application, Log No. 1995-250 for the Northern Unit and Log No. 1991-138 for the Southern Unit. The current MAPC values are listed in Attachment 1 to this permit letter.

The operator must provide final AGQS values in the form of a significant modification application by October 15, 1997.

LIST G1 (Groundwater - Quarterly)

<u>FIELD PARAMETERS</u>	<u>STORETS</u>	<u>Northern Unit</u> <u>AGQS</u>	<u>Southern Unit</u> <u>AGQS</u>
pH	00400	5.4-8.1	7.67
Specific Conductance	00094		717.61
Temperature of Water Sample (° F)	00011	----	----
Depth to Water (ft. below land surface)	72019	----	----
Depth to Water (ft. below measuring point)	72109	----	----
Elevation of Measuring Point (Top of casing ft. MSL)	72110	----	----
Elevation of Groundwater Surface (ft. MSL)	71993	----	----
Elevation of Bottom of Well (ft. MSL)	72020	----	----
<u>INDICATOR PARAMETERS</u>	<u>STORETS</u>	<u>Northern Unit</u> <u>AGQS</u>	<u>Southern Unit</u> <u>AGQS</u>
Ammonia (as Nitrogen) (Dissolved mg/L)	00608	.9	0.09
Arsenic (Dissolved ug/L)	01000	2	7.1
Boron (Dissolved) ug/L	01020	98	10
Cadmium (Dissolved) ug/L	01025	5	1.1
Chloride (Dissolved, mg/L)	00941	87.511	33.29
Cyanide (mg/L) (Total)	00720	.034	0.0143
Lead (Dissolved) ug/L	01049	4	1.6
Iron (Dissolved) ug/L	01046	4530	1635
Manganese (Dissolved) ug/L	01056	1479.53	8
Nitrate (as N) (Dissolved) mg/L	00618	11.74	10.74
Phenol (Total) ug/L	32730	100	10
Sulfate (Dissolved, mg/L)	00946		67
Total Dissolved Solids (TDS, Dried at 180°C) (Dissolved) mg/L	70300	1755.8	584.30
Zinc (Dissolved) ug/L	01090	236072.4	1338

NOTE:

- i. All parameters with the "(Dissolved)" label to the right shall be determined using groundwater samples which have been filtered through a 0.45 micron filter. All other parameters shall be determined from unfiltered samples.
- ii. Maximum allowable predicted concentrations (MAPCs) and applicable groundwater quality standards (AGQS) are given in ug/L except as otherwise noted. Also, the monitoring results

should be reported in ug/L units unless otherwise indicated. The MAPC concentrations are included at the end of this document.

LIST G2 (Groundwater - Annual)

<u>PARAMETERS</u> (ug/L)	<u>STORETS</u>	<u>Northern Unit</u> <u>AGOS</u>	<u>Southern Unit</u> <u>AGOS</u>
<u>UNFILTERED</u> (totals)			
Acetone	81552	10	100
Acrolein	34210	100	100
Acrylonitrile	34215	10	10
# Alachlor	77825	2	2
# Aldicarb	39053	1	1
@ Aldrin	39330	.5	.5
Aluminum	01105	66602.6	
@ Ammonia (as N) (mg/L)	00610	900	
# Antimony	01097	5	5
# Arsenic	01002	10	9.15
# Atrazine	39033	3	3
# Barium	01007	225180.6	1191.14
# Benzene	34030	2.8	5
# Benzo(a)Pyrene	34247		
# Beryllium	01012	5	2.37
BOD (mg/L)	00310	4.04	
# Boron	01022	200	46.77
*Bromobenzene	81555	5	5
*Bromochloromethane (chlorobromomethane)	77297	5	5
*Bromodichloromethane	32101	5	5
*Bromoform (Tribromomethane)	32104	5	5
*Bromomethane (Methyl Bromide)	34413	10	10
*n-Butylbenzene	77342	5	5
*sec-Butylbenzene	77350	5	5
*tert-Butylbenzene	77353	5	5
# Cadmium	01027	45	8.31
Calcium (mg/L)	00916	3093	357.31
# Carbofuran	81405	10	10
Carbon Disulfide	77041	5	5
# Carbon Tetrachloride	32102	5	5
Chemical Oxygen Demand (COD) (mg/L)	00335	50.04	
# Chlordane	39350	1.2	10
# Chloride (mg/L)	00940	87.51186	62.36

LIST G2 (Groundwater - Annual) (cont.)

<u>PARAMETERS (ug/L)</u>	<u>STORETS</u>	<u>Northern Unit</u> <u>AGQS</u>	<u>Southern Unit</u> <u>AGQS</u>
<u>UNFILTERED (totals)</u>			
#*Chlorobenzene	34301	5	5
*Chloroethane (Ethyl Chloride)	34311	10	10
*Chloroform (Trichloromethane)	32106	5	5
*Chloromethane (Methyl Chloride)	34418	10	10
bis(chloromethyl)Ether	34268		
*o-Chlorotoluene	77275	5	1
*p-Chlorotoluene	77277	5	1
# Chromium	01034	5516.15	1056.86
*Chlorodibromomethane (Dibromochloromethane)	32105	5	5
# Cobalt	01037	50	64.34
# Copper	01042	1887.83	737.52
p-Cresol	77146	100	
# Cyanide (mg/L)	00720	.034	0.0143
# Dalapon	38432		
@ DDT	39370	.25	.1
*Dibromomethane (Methylene Bromide)	77596	5	5
*m-Dichlorobenzene (1,3 Dichlorobenzene)	34566	5	5
#*o-Dichlorobenzene (1,2 Dichlorobenzene)	34536	5	5
# p-Dichlorobenzene (1,4 Dichlorobenzene)	34571	5	5
*Dichlorodifluoromethane	34668	19	5
#*Dichloromethane (Methylene Chloride)	34423	8	10
@ Dieldrin	39380	.25	.25
Diethyl Phthalate	34336	100	100
Dimethyl Phthlate	34341	100	100
Di-N-Butyl Phthlate	39110	100	100
# Dinoseb (DNBP)	81287		
# Endothall	38926		
# Endrin	39390	.25	
bis(2-Ethylhexyl)Phthalate	39100	72	
#*Ethylbenzene	78113	5	5
#*Ethylene Dibromide (EDB)(1,2-Dibromo ethane)	77651	5	5
# Fluoride (mg/L)	00951	273.35	0.26
# Heptachlor	39410	.5	10
# Heptachlor Epoxide	39420	.5	10
*Hexachlorobutadiene	39702	100	10
# Hexachlorcyclopentadiene	34386		

LIST G2 (Groundwater - Annual) (cont.)

<u>PARAMETERS</u> (ug/L)	<u>STORETS</u>	<u>Northern Unit</u> <u>AGQS</u>	<u>Southern Unit</u> <u>AGQS</u>
<u>UNFILTERED</u> (totals)			
Iodomethane (Methyl Iodide)	77424	10	1
= Iron (mg/L)	01045	446.696	578.23705
Isophrone	34408	100	100
*Isopropylbenzene	77223	5	5
*p-Isopropyltoluene	77356	5	5
= Lead	01051	41230.83	343.99
= Lindane	39782	.5	10
Magnesium (mg/L)	00927	109.5	1796.37
= Manganese	01055	12381.45	17427.95
= Mercury	71900	.4	.21
= Methoxyclor	39480	1.2	10
*Naphthalene	34696	100	10
= Nickel	01067	1757.64	857.73
= Nitrate-Nitrogen (mg/L)	00620	11.7389	18.555.25
@ Oil(Hexane-Soluble or Equivalent) (mg/L)	00550	2.5	1
@ Parathion	39540	1	10
= Pentachlorophenol	39032	500	50
pH	00400	5.4-8.1	7.67
= Phenols	32730	100	10
= Picloram	39720		
= Polychlorinated Biphenyls	39516	2.5	5
Potassium (mg/L)	00937	29.00582	4.19
*n-Propylbenzene	77224	5	5
= Selenium	01147	4	1.38
= Silver	01077	20	6.22
= Simazine	39055		
Sodium (mg/L)	00929	164.78966	1.86
=*Styrene	77128	10	5
= Sulfate (mg/L)	00945	179.37307	66.22
= TDS (Dried at 180°, mg/L)	70300	1755.87	584.30
TOC (mg/L)	00680	4301.02	3340
=*Tetrachloroethylene (Perchloroethylene)	34475	26	5
Tetrahydrofuran	81607	42	7
= Thallium	01059	200	27.09
=*Toluene	34010	20	5
= Toxaphene	39400	2.5	10
= Trichloroethylene (Trichloroethene)	39180	66	10

LIST G2 (Groundwater - Annual) (cont.)

<u>PARAMETERS</u> (ug/L)	<u>STORETS</u>	<u>Northern Unit</u> <u>AGQS</u>	<u>Southern Unit</u> <u>AGQS</u>
<u>UNFILTERED</u> (totals)			
*Trichlorofluoromethane	34488	5	5
Vanadium	01087	100	88.88
= Vinyl Chloride	39175	17	2
Vinyl Acetate	77057	10	10
= Xylenes	81551	5	5
*m-Xylene	77134	5	5
*o-Xylene	77135	5	5
*p-Xylene	77133	5	5
= Zinc	01092	622283.32	12163.86
*1,1,1,2-Tetrachloroethane	77562	5	5
= 1,1,1-Trichloroethane	34506	12	5
*1,1,2,2-Tetrachloroethane	34516	5	5
=*1,1,2-Trichloroethane (Methylchloroform)	34511	5	5
*1,1-Dichloroethane	34496	31	5
= 1,1-Dichloroethylene	34501	2.5	5
*1,1-Dichloropropene	77168	5	5
*1,2,3-Trichlorobenzene	77613	5	5
*1,2,3-Trichloropropane	77443	5	5
=*1,2,4-Trichlorobenzene	34551	5	5
*1,2,4-Trimethylbenzene	77222	5	5
=*1,2-Dibromo-3-Chloropropane (DBCP)	38760	5	5
=*cis-1,2-Dichloroethylene	77093	5	5
=*trans-1,2-Dichloroethylene	34546	5	5
= 1,2-Dichloroethane	34531	2.5	5
=*1,2-Dichloropropane (Propylene Dichloride)	34541	6	5
*1,3,5-Trimethylbenzene	77226	5	5
*1,3-Dichloropropane	77173	5	5
*1,3-Dichloropropene	34561	5	5
cis-1,3-Dichloropropene	34704	5	5
trans-1,3-Dichloropropene	34699	5	5
trans-1,4-Dichloro-2-Butene	73547	5	5
*2,2-Dichloropropane	77170	5	5
= 2,4,5-TP (Silvex)	39760	1	2
= 2,4-Dichlorophenoxyacetic Acid (2,4-D)	39730	2	10
2-Butanone(Methyl Ethyl Ketone)	81595	5	10
2-Hexanone (Methyl Butyl Ketone)	77103	10	50
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	78133	10	10

NOTE:

- i. All parameters with the "(Dissolved)" label to the right shall be determined using groundwater samples which have been filtered through a 0.45 micron filter. All other parameters shall be determined from unfiltered samples.
 - ii. Maximum allowable predicted concentrations (MAPCs) and applicable groundwater quality standards (AGQS) are given in ug/L except as otherwise noted. Also, the monitoring results should be reported in ug/L units unless otherwise indicated. The MAPC concentrations are included at the end of this document.
 - iii. The preceding list of parameters (G2) includes all those found in Attachment 1 to Appendix C to LPC-PA2. The 51 constituents from 40 CFR 141.40 and the parameters from 35 IAC 620.410 and the parameters from 35 IAC 302, designated with (*), (#) and (@) respectively are required to be monitored annually and may not be deleted.
13. Pursuant to 35 IAC, 811.319(a)(4)(A), any of the following events shall constitute an observed increase only if the concentrations of the constituents monitored can be measured at or above the practical quantitation limit (PQL):
- a. The concentration of any constituent in List G1 of Condition VIII.12 shows a progressive increase over four (4) consecutive quarters.
 - b. The concentration of any constituent monitored in accordance with List G1 or List G2 of Condition VIII.12 exceeds the MAPC at an established monitoring point within the zone of attenuation.
 - c. The concentration of any organic constituent in List G2, monitored in accordance with Condition VIII.12 exceeds the preceding measured concentration at any established point.
 - d. The concentration of any constituent monitored at or beyond the edge of the zone of attenuation (compliance boundary) exceeds its AGQS, or pursuant to 811.320(d)(1) any constituent monitored at an upgradient well, exceeds its AGQS.
14. For each round of sampling described in Condition 10 of this Section, the operator must determine if an observed increase has occurred within 45 days of the date the samples were collected. If an observed increase is identified, the operator must also notify the Agency in writing within 10 days and follow the confirmation procedures of 35 IAC, 811.319(a)(4)(B). Furthermore, the operator must complete the confirmation procedures within 90 days of the initial sampling event.

15. Within 90 days of confirmation of any monitored increase, the operator shall submit a permit application for a significant modification to begin an assessment monitoring program in order to determine whether the solid waste disposal facility is the source of the contamination and to provide information needed to carry out a groundwater impact assessment in accordance with 35 IAC 811.319(b).
16. The first quarterly statistical evaluations shall be performed on groundwater samples taken during the months of July-August (3rd) sampling quarter and the results submitted to the Agency by October 15, 1996.
17. The schedule for sample collection and submission of quarterly monitoring results is as follows:

<u>Sampling Quarter</u>	<u>Sampling Due</u>	<u>Report Due Date</u>
Jan-Feb (1st)	List G1	April 15
April-May (2nd)	List G1 and G2	July 15
July-Aug (3rd)	List G1	October 15
Oct-Nov (4th)	List G1	January 15

G1 - Routine Groundwater Parameters
G2 - Annual Groundwater Parameters

18. Elevation of stick-up is to be surveyed and reported to the Agency:
 - a. When the well is installed (with the as-built diagrams),
 - b. Every two years thereafter, or
 - c. Whenever there is reason to believe that the elevation has changed.
19. Annually, the operator shall prepare an evaluation of the groundwater flow direction and the hydraulic gradients at the facility using the groundwater surface elevations (Storet #71993) determined for each monitoring event. This assessment shall be submitted with the monitoring results due on July 15.
20. All monitoring points shall be maintained in accordance with the approved permit application such that the required samples and measurements may be obtained.
21. Annually, the operator shall evaluate the background data base using an appropriate statistical method listed in 35 IAC 811.320(e) for determining a statistically significant change. The results of this evaluation shall be submitted with the annual report each

year. Background concentrations which exhibit a statistically significant change shall be adjusted and updated in accordance with 35 IAC 811.320(d)(1) and submitted to the Agency as a permit modification.

Special Conditions for the Northern Unit:

22. A report shall be submitted in the form of a significant modification application by January 15, 1997 summarizing the results of the assessment monitoring program specified in Log No. 1995-250. At a minimum, this summary shall include:
 - a. The results of sampling for the 40 CFR 258 Subtitle D Appendix II parameters for wells G17S (a.k.a. G117) and G06S (a.k.a. MW106) and a proposal to add additional parameters to the routine annual list, to be sampled semi-annually during the assessment, as determined from the results;
 - b. A determination as to the extent and rate of migration of groundwater contamination; and
 - c. A methodology for evaluating groundwater data to determine when a significant increase has occurred.
23. Within 90 days of issuance of this permit, the operator shall submit a significant modification application which includes the final corrective action measures in accordance with 35 IAC 811.325 and notification that the public meeting, pursuant to 811.324(e) has been completed. Also, the application shall include a statistical method for evaluating groundwater quality data during the assessment.

Special Condition for the Southern Unit:

24. The observed increase criteria and determinations described in Conditions VIII.13. and VIII.14. apply to all of the groundwater monitoring wells listed in Condition VIII.9. except the existing wells R05S (a.k.a. R105), G10S (a.k.a. G110), G13S, G13D, G16S, and G16D. For these existing wells, trend analysis shall be performed using intra-well data and the results shall be summarized in the annual report described in Condition XI.2.

IX. LANDFILL GAS MANAGEMENT/MONITORING

1. The landfill gas monitoring plans described in Application Log Nos. 1991-138 and 1995-250 are approved. The permanent dual leachate/gas extraction system for the northern unit, proposed in Permit Application Log No. 1995-250, shall be installed in accordance with the schedule given in Condition No. VII.5 of this permit letter. The components of the existing gas extraction system for the northern unit shall be utilized

until replaced by the permanent extraction system. The gas monitoring probes within the waste boundary described in Application Log Nos. 1991-138 shall be installed and put into service within ninety days after final cover has been applied to the various areas where they are located.

2. The gas monitoring probes both inside and outside the waste boundary shall be monitored for the following parameters:
 - a. Methane;
 - b. Pressure;
 - c. Nitrogen*;
 - d. Oxygen; and
 - e. Carbon Dioxide

*NOTE: For routine monitoring, Nitrogen may be reported as the net remaining volume fraction after the other measured constituents have been accounted for.

3. The ambient air monitoring devices described in the Application Log Nos. 1991-138 and 1995-250 shall be used to test the air downwind of the landfill for methane.
4. All buildings within the facility boundaries shall be monitored continuously for methane.
5. Gas monitoring at the northern unit shall begin immediately and gas monitoring at the southern unit shall begin when the first significant modification authorizing waste disposal is obtained. Gas monitoring at both units shall continue for at least 30 years after their respective closures and may be discontinued only after the conditions described in 35 IAC, Section 811.310(c)(4) have been achieved.
6. Pursuant to 35 IAC, Section 811.310, sampling and testing of the gas monitoring probes and ambient air monitoring at the northern unit shall be performed at least annually throughout its remaining operating life and its post closure care period. Sampling and testing of the gas monitoring probes and ambient air monitoring at the southern unit shall be performed at least monthly throughout the operating life and during the first five years after its closure. Then during the remainder of the post-closure care period for the southern unit, this monitoring frequency may be reduced to quarterly.
7. With regard to the southern unit, in the event of any of the occurrences listed below, the operator shall, within 180 days of the occurrence, submit to the Agency an application for a significant modification either proposing a gas collection/management system or demonstrating that the facility is not the cause of the occurrence.

- a. A methane concentration greater than 50 percent of the explosive limit in air is detected in any of the below ground monitoring devices outside the waste boundary;
 - b. A methane concentration greater than 50 percent of the explosive limit in air is detected during ambient air monitoring;
 - c. A methane concentration greater than 25 percent of the explosive limit in air is detected in any building on or near the facility; or
 - d. Malodors attributed to the unit are detected beyond the property boundary.
8. The gas probes shall be inspected at least monthly for structural integrity and proper operation.
 9. The results from gas monitoring for each calendar year shall be submitted to the Agency in the annual report required by 35 IAC, Section 813.501.
 10. At the end of the post-closure care period, the gas monitoring probes and gas extraction wells shall be decommissioned. The probes outside the waste boundary shall be decommissioned using the method described in the enclosed Agency monitoring well plugging procedure guidance. In decommissioning the probes within the waste boundaries, the pipes shall be cut off at least two (2) feet below the low permeability layer and plugged. Then the low permeability layer, the protective layer and the vegetation shall be restored in the excavated areas.

X. CLOSURE/POST CLOSURE CARE AND FINANCIAL ASSURANCE

1. The northern and southern units shall be closed in accordance with the respective closure plans in Application Log Nos. 1991-138 and 1995-250. Upon completion of closure activities, the operator shall notify the Agency that the site has been closed in accordance with the approved closure plan utilizing the Agency's "Affidavit for Certification of Completion of Closure of Non-Hazardous Waste Facilities."
2. Inspections of the closed landfill shall be conducted in accordance with the approved post-closure care plan in Application Log Nos. 1991-138 and 1995-250. Records of field investigations, inspections, sampling and corrective action taken are to be maintained at the site and made available to IEPA personnel. During the post-closure care period, these records are to be maintained at the office of the site operator.

3. If necessary, the soil over the entire planting area shall be amended with lime, fertilizer and/or organic matter. On side slopes, mulch or some other form of stabilizing material is to be provided to hold seed in-place and conserve moisture.
4. When the post-closure care period has been completed, the operator shall notify the Agency utilizing the Agency's "Affidavit for Certification of Completion of Post-Closure Care for Non-Hazardous Waste Facilities."
5. The operator shall provide financial assurance for closure and post-closure care pursuant to 35 IAC, Section 811.700(b). However, financial assurance shall be required only for those areas for which authorization to operate has been obtained or is being requested.
6. The total cost estimate for closure and post closure care for the northern unit approved by Modification No. 2 to Permit No. 1991-138-LF is \$3,501,863.00. The total cost estimate for closure and post closure care for the southern unit approved by Permit No. 1991-138-LF is \$865,529.00¹. The operator has provided the Agency proof of financial assurance in the amount of \$5,250,480.00.
7. The operator shall increase the total amount of financial assurance so as to equal the current cost estimate within 90 days of an increase in the current cost estimate in accordance with 35 IAC, 811.701(b).
8. The owner or operator shall adjust the cost estimates for closure, post-closure, and corrective action for inflation on an annual basis during the following time periods:
 - a. The active life of the unit for the closure cost;
 - b. The active life and post-closure care period for the post-closure cost; or
 - c. Until any corrective action program is completed in accordance with 35 IAC, Section 811.326, for the cost of corrective action.

If there are no changes to the cost estimates, certification for the above shall be provided to the Agency in the annual report. Any increase to the cost estimates shall be submitted as an application for significant modification to the permit, and shall be due the same time as the annual report.

¹Pursuant to 35 IAC, Section 811.700(b), the operator is required to post financial assurance for the southern unit before obtaining the first significant modification authorizing waste disposal in the southern unit.

XI. REPORTING REQUIREMENTS

1. Within 90 days of issuance of this permit, the operator shall submit to this Agency one map of the facility with a scale no smaller than one (1) inch equals 200 feet. This map shall show:
 - a. The facility boundaries;
 - b. The permitted waste boundaries of the northern and southern units;
 - c. All on-site buildings; and
 - d. All groundwater, leachate and gas monitoring points for the northern and southern units.

Each monitoring point shall be labeled on the map with its Agency designation. The designations provided in this permit letter by the Agency shall be used for the leachate and groundwater monitoring points. The gas monitoring points shall be labeled using a logical nomenclature developed by the operator or the consultant.

2. The annual report for each calendar year shall be submitted to the Agency by May 1 of the following year pursuant to 35 IAC, Section 813.501. The first annual report shall be for the period from the date of issuance of this permit through the end of the calendar year. The annual report shall include:
 - a. A waste volume summary which includes:
 - i. Total volume of solid waste accepted at the facility during the past year in cubic yards as measured at the gate;
 - ii. The remaining solid waste capacity in the unit in cubic yards as measured at the gate; and
 - iii. A copy of all identification reports required under 35 IAC, Section 811.404.
 - b. Monitoring data from the leachate collection system, groundwater monitoring network, and gas monitoring system including:
 - i. Graphical results of monitoring efforts;

- ii. Statistical summaries and analysis of trends;
 - iii. Changes to the monitoring program; and
 - iv. Discussion of error analysis, detection limits and observed trends.
 - c. Proposed activities for the upcoming year including:
 - i. Amount of waste expected, in cubic yards;
 - ii. Structures to be built; and
 - iii. New monitoring stations to be installed.
 - d. The signature of the operator or duly authorized agent as specified in 35 IAC, Section 812.104.
3. In addition to the annual report, the quarterly reports on groundwater and leachate monitoring shall be submitted to the Agency in accordance with the schedules described in Conditions VII.6. and VIII.17, pursuant to 35 IAC, Section 813.502.
4. The original and two (2) copies of all certifications, logs, reports and plan sheets and three (3) copies of groundwater monitoring chemical analysis forms which are required to be submitted to the Agency by the permittee should be mailed to the following address:

Illinois Environmental Protection Agency
Planning and Reporting Section
Division of Land Pollution Control -- #24
2200 Churchill Road
Post Office Box 19276
Springfield, Illinois 62794-9276

Within 35 days after the notification of the final permit decision, the applicant may petition for a hearing before the Illinois Pollution Control Board to contest the decision of the Agency, however, the 35-day period for petitioning for a hearing may be extended for a period of time not

to exceed 90 days by written notice provided to the Board from the applicant and the Agency within the 35-day initial appeal period.

Sincerely,

Edwin C. Bakowski
by JHK

Edwin C. Bakowski, P.E.
Manager, Permit Section
Bureau of Land

KLS
ECB:CJL\mls\961333S.WPD
CJL

Attachment 1: MAPC Values

- Enclosures:
1. Special Waste Preacceptance Form (Profile Identification Sheet)
 2. Annual Generator Special Waste Recertification for Disposal of Special Waste
 3. Well Completion Report Form
 4. IEPA Monitoring Well Plugging Procedure
 5. Chemical Analysis Form and Instructions
 6. Affidavit for Certification of Completion of Closure of Non-Hazardous Waste Facilities

cc: Andrew Rathsack, P.E.; Andrews Environmental Engineering, Inc.
Alex Vincent, GeoTrans, Inc.

bcc: Bureau File
Rockford Region
Kenn Liss
Scott McGill
Chris Liebman